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Ultraviolet radiation conditioning equipment

Description

The ultraviolet radiation conditioning equipment comprises a 1m diameter by 750mm high sheet steel "tank". The xenon arc lamp is located vertically on the central axis, so that the direction of radiation is radially outwards.



A fan is located in the lid of the tank, above the lamp. This draws ambient air into the tank to keep the lamp and test specimens cool.

Three lamps are available for the equipment, 450W, 450W ozone free, and 150W. Different power supplies/control gear are required for the 150W and 450W lamps and need to be specified at order.

The specimens are held in "finger" clamps which are supported on a number of concentric hoops positioned at various heights, so that the specimens are facing inwards towards the radiation.

Sufficient finger clamps are supplied so that up to about six helmets or sixty single oculars can be accommodated simultaneously.

Some standards require the use of cut-on filters. These are not supplied.

Options

Please specify which lamps the equipment is required to operate with.

Services required

Floor mounted.
110/230 Volts AC, 50/60Hz, mains electricity.
An extraction fan and ducting to the outside of the building is required because ozone is produced in operation.
Cut-on filters

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Ultraviolet radiation conditioning equipment (continued)

Consumables

Replacement lamps are available.

Approximate dimensions and weight

120 x 120 x 75 cm : 120 kg

Relevant standards

Eye protection
BS 4110:1999
EN 12254:2008
EN 166:2001
EN 168:2001
EN 174:2001
EN 1938:2010
EN 207:2017
EN 208:2009
ISO 12312-1:2022
ISO 16321-1:2021
ISO 18526-3:2020

Helmets
BS 7928:2013
BS 7928-2:2009
EN 1077:2007
EN 1078:2012
EN 1080:2013
EN 12492:2025
EN 13087-1:2000
EN 13484:2012
EN 13781:2012
EN 1384:2023
EN 1385:2012
EN 14052:2012
EN 14572:2005
EN 16471:2014
EN 16473:2014
EN 397:2025
EN 443:2008
EN 812:2012
EN 966:2012 + A1
PAS 015:2011
PAS 028:2002
PSDB 21/04